IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Previously Presented): A monoclonal antibody, which exhibits a selectivity in cross reaction with N-carbamyl-β-alanine of 10% or less, when the selectivity in cross reaction with uracil or thymine is 90% or more.

Claim 2 (Previously Presented): The monoclonal antibody of claim 1, which exhibits low reactivity with pseudouridine, dihydrouracil, and dihydrothymine.

Claim 3 (Canceled).

Claim 4 (Previously Presented): The monoclonal antibody of claim 1, which exhibits a selectivity in cross reaction with N-carbamyl- β -alanine of 10% or less; a selectivity in cross reaction with pseudouridine of 33% or less; a selectivity in cross reaction with dihydrouracil of 8% or less; and a selectivity in cross reaction with dihydrothymine of 23% or less; when the selectivity in cross reaction with uracil or thymine is 90% or more.

Claim 5 (Currently Amended): The monoclonal antibody as described of claim 1, which is produced from a hybridoma which is formed from a myeloma cell and an antibody-producing cell derived from an animal to which 5-halogeno-1 carboxymethyluracil has been administered.

Claim 6 (Previously Presented): The monoclonal antibody as described in claim 5, wherein the hybridoma is FERM BP-6870.

Claim 7 (Previously Presented): A hybridoma producing the monoclonal antibody of claim 1.

Claim 8 (Currently Amended): A method for immunochemically assaying uracil and thymine comprising contacting a sample possibly containing uracil and thymine with the monoclonal antibody of claim 1; and

detecting the formation of an <u>a formed</u> antibody-antigen complex, wherein the presence of the antibody-antigen complex is indicative of the presence of uracil and thymine in the sample.

Claim 9 (Previously Presented): A composition, comprising the monoclonal antibody of claim 1; and a carrier.

Claim 10 (Currently Amended): A method for diagnosing DPD deficiency in an individual, comprising, assaying uracil and thymine according to the method of claim 8, wherein the sample is obtained from the individual and wherein the presence an increase of uracil and thymine in the sample relative to a sample obtained from an individual that is not DPD deficient is diagnostic for DPD deficiency in the individual.

Claim 11 (Canceled).

Claim 12 (New): A hybridoma producing the monoclonal antibody of claim 4.

Claim 13 (Currently Amended): A method for immunochemically assaying uracil and thymine comprising contacting a sample possibly containing uracil and thymine with the monoclonal antibody of claim 4; and

detecting the formation of an a formed antibody-antigen complex, wherein the presence of the a detected antibody-antigen complex is indicative of the presence of uracil and thymine in the sample.

Claim 14 (Previously Presented): A composition, comprising the monoclonal antibody of claim 4; and a carrier.

Claim 15 (Currently Amended): A method for diagnosing DPD deficiency in an individual, comprising, assaying uracil and thymine according to the method of claim 13, wherein the sample is obtained from the individual and wherein the presence an increase of uracil and thymine in the sample relative to a sample obtained from an individual that is not DPD deficient is diagnostic for DPD deficiency in the individual.

Claim 16 (Previously Presented): A hybridoma producing the monoclonal antibody of claim 6.

Claim 17 (Currently Amended): A method for immunochemically assaying uracil and thymine comprising contacting a sample possibly containing uracil and thymine with the monoclonal antibody of claim 6; and

detecting the formation of an <u>a formed</u> antibody-antigen complex, wherein the <u>presence of the a detected</u> antibody-antigen complex is indicative of the presence of uracil and thymine in the sample.

Claim 18 (Previously Presented): A composition, comprising the monoclonal antibody of claim 6; and a carrier.

Claim 19 (Previously Presented): A method for diagnosing DPD deficiency in an individual, comprising, assaying uracil and thymine according to the method of claim 17, wherein the sample is obtained from the individual and wherein the presence an increase of uracil and thymine in the sample relative to a sample obtained from an individual that is not DPD deficient is diagnostic for DPD deficiency in the individual.